

Public Notice for Indeck – Elwood
Proposed Issuance of a Construction Permit/PSD Approval
and Notice of Public Hearing and Comment Period

Indeck – Elwood, 600 North Buffalo Grove Road in Buffalo Grove, Illinois, has requested a permit from the Illinois Environmental Protection Agency (Illinois EPA) to build a new coal-fired power plant at the intersection of Drummond and Baseline Roads about 1 mile west of the Village of Elwood. The plant would have two fluidized bed boilers for a total capacity of about 660 MW of electricity (gross output). As a source of air emissions, the facility is required to have a permit from the Illinois EPA prior to beginning construction. The plant would be a major source of emissions pursuant to the federal Prevention of Significant Deterioration rules, 40 CFR 52.21, and the state Major Source Construction and Modification (MSSCAM) rules, 35 IAC 203. The Illinois EPA is accepting comments on the proposed permit.

The Illinois EPA's Bureau of Air will hold a public hearing on May 22, 2003 at 7:00 p.m. at the Elwood Community Church Hall, 101 N. Chicago in Elwood. The hearing will be held to receive comments and answer questions from the public prior to making a final decision concerning the permit application. The hearing will be held under the Illinois EPA's "Procedures for Permit and Closure Plans," 35 IAC 166, Subpart A. Lengthy comments and questions should be submitted in writing. Requests for interpreters (including sign language) must be made by May 7, 2003. Any questions about hearing procedures or requests to address special needs should be made to the Hearing Officer, Dan Merriman, Illinois EPA, 1021 N. Grand Ave. E., P.O. Box 19276, Springfield, IL 62794-9276, 217/782-5544.

Written comments must sent to the Hearing Officer and be postmarked by midnight, June 21, 2003, unless otherwise specified by the Hearing Officer. Written comments need not be notarized.

The proposed plant is located in an area that is designated attainment for all criteria pollutants except ozone. The plant would be a major source of volatile organic material (VOM), which is regulated as an ozone precursor, and is subject to MSSCAM, 35 IAC 203. MSSCAM requires the facility to meet the Lowest Achievable Emission Rate (LAER) and provide emission offsets. LAER would be achieved for the boilers by good combustion practices, i.e. adequate residence time and high temperature in the combustion zone. Indeck-Elwood will provide 1.3 tons of VOM offsets for each ton of the plant's permitted VOM emissions.

The plant would be a major source of nitrogen oxides (NO_x), carbon monoxide (CO), particulate matter (PM) and sulfur dioxide (SO₂). For these pollutants and other PSD pollutants emitted in significant amounts, the plant must use Best Available Control Technology (BACT). BACT has been proposed as the combination of fluidized bed boilers with limestone addition to the bed and good combustion practices, accompanied by add-on selective non-catalytic reduction and fabric filters. The plant is also subject to a case-by-case determination of Maximum Achievable Control Technology for emissions

of hazardous air pollutants (HAPs), including mercury. The above measures would also provide effective control of HAPs.

Indeck submitted an air quality analysis to show that the proposed plant would not violate PSD increments or National Ambient Air Quality Standards (NAAQS). NAAQS are standards for pollutant concentration in the air established by USEPA to be protective of public health and welfare. The analysis shows that the plant would not have significant impacts for CO. For NO₂, SO₂ and PM, the results of the analysis are provided below.

PSD Increment Consumption (microgram/cubic meter)

Pollutant/ Averaging Period	Max. Increment Consumed	Allowed PSD Increment
NO ₂ - Annual	8.9	25
SO ₂ -3-Hour	69.3	512
SO ₂ - 24-Hour	13.9	91
PM ₁₀ - 24-Hour	6.7	30
PM ₁₀ -Annual	1.1	17

Results of the NAAQS Analysis (microgram/cubic meter)

Pollutant/ Averaging Period	Max. Modeled Source Impact	Monitored Background	Total	NAAQS
NO ₂ - Annual	20.7	18.9	39.6	100
SO ₂ -3-Hour	741.9	180.8	922.7	1300
SO ₂ - 24-Hour	193.4	60.3	253.7	365
PM ₁₀ - 24-Hour	71.8	59	130.9	150
PM ₁₀ -Annual	15.4	23	38.4	50

In conjunction with this permit, the Illinois EPA is also proposing to issue an Acid Rain Permit and a Budget Permit for the proposed plant, to address requirements under the federal Acid Rain program and the state's NO_x Trading program. Under the Acid Rain program, Indeck's designated representative is Mr. Thomas Campone.

Persons wanting more information may review the Illinois EPA's project summary and draft permit at www.epa.gov/region5/air/permits/ilonline.htm (under All Permit Records, NSR, New). These documents along with the application may also be reviewed at the Elwood Village Hall, 201 E. Mississippi in Elwood, the Manhattan Public Library, 240 Whitson St. in Manhattan, and the Illinois EPA's offices at 9511 W. Harrison St. in Des Plaines, 847/294-4000, and 1340 N. Ninth St., Springfield, 217/782-7027 (please call ahead to assure that someone will be able to assist you).

For information or requests about the application or draft permit, please contact:
Brad Frost, Community Relations, Illinois EPA, 1021 N. Grand Ave. E.
P.O. Box 19506, Springfield, IL 62794-9506, 217/782-2113 or 217/782-9143 TDD.